NDIA
National Defense Industrial Association

PROMOTING NATIONAL SECURITY SINCE 1919

MUNITIONS EXECUTIVE SUMMIT

February 28 - March 1, 2012

ACHIEVING EFFICIENCIES ACROSS THE MUNITIONS ENTERPRISE

Collaboration, Communication and Cooperation

ATTENDING THIS CONFERENCE PROVIDES:

Insight and perspectives on concerns and issues affecting the munition industrial base

Engagement with government and industry leadership dedicated to shaping the future state of the ammunition enterprise

The primary forum to exchange ideas, perspectives, and expertise on ammunition requirements, technology, and programs

Networking contacts, partnerships and connections to government and industry stakeholders

Industry awareness from subject matter experts that enhances professional development and personal growth

FEBRUARY 28 - MARCH 1, 2012
WWW.NDIA.ORG/MEETINGS/2650

ARIZONA GRAND HOTEL ▶ PHOENIX, AZ

TUESDAY, FEBRUARY 28

7:00 am - 6:00 pm REGISTRATION OPEN — BALLROOM FOYER

5:00 pm - 6:00 pm OPENING RECEPTION — PASEO

WEDNESDAY, FEBRUARY 29

7:00 am - 7:00 pm REGISTRATION OPEN — BALLROOM FOYER

7:00 am - 8:00 am CONTINENTAL BREAKFAST — BALLROOM FOYER

8:00 am - 8:15 am WELCOME & OPENING REMARKS — BALLROOM A-H
- Mr. Tim Bagniefski, *Vice President, Marketing, General Dynamics-OTS; Chairman, NDIA Munitions Technology Division*
- MG Barry Bates, USA (Ret), *Vice President, Operations, NDIA*

8:15 am - 9:00 am GOVERNMENT KEYNOTE ADDRESS
- Mr. Matt Donohue, *Director for Ground Systems, Office of Deputy Assistant Secretary of Army*

9:00 am - 9:45 am CONGRESSIONAL BUDGET PERSPECTIVE
- Mr. Lee Dixson, *Senior Vice President, Robison International, Inc.*

9:45 am - 10:15 am BREAK — BALLROOM FOYER

10:15 am - 11:45 am AMMUNITION ENTERPRISE CROSS-SERVICE PANEL

Moderator:
- BG Jonathan A. Maddux, USA, *Program Executive Officer Ammunition*

Panelists:
- BG (P) Gustave F. Perna, USA, *Commanding General, Joint Munitions Command*
- CAPT Jeffrey Horton, USN, *Director, OEDCA*
- Mr. Barry J. Pike, *Deputy Program Executive Officer, Program Executive Office, Missiles and Space*
- Col Perry Oaks, USAF, *Chief of the Munitions Division, Hill AFB, Utah*

11:45 am - 12:00 pm 2011 MES AWARDS

12:00 pm - 1:00 pm LUNCH — FOXTAIL/IRONWOOD

1:00 pm - 1:45 pm DoD PERSPECTIVES & PRIORITIES
- Mr. Jose Gonzalez, *Director, OUSD (AT&L) Land Warfare & Munitions*

1:45 pm - 3:00 pm INDUSTRY PANEL: ACHIEVING EFFICIENCIES & BETTER BUYING POWER

Moderator:
- Mr. Tim Bagniefski, *Vice President, Marketing, General Dynamics-OTS; Chairman, NDIA Munitions Technology Division*

Panelists:
- Ms. Karen Davies, *Senior Vice President & President, ATK Armament Systems*
- Mr. Kevin Knotts, *Principal Consultant, CSC*
- Mr. Randy Lansing, *President, AMTEC*
- Mr. Michael Wilson, *President, General Dynamics-OTS; Vice President, General Dynamics*
- Mr. Michael Yoh, *President & CEO, Day & Zimmermann Munitions and Government*

3:00 pm - 3:30 pm BREAK — BALLROOM FOYER

3:30 pm - 4:00 pm THE ROLE OF DOE LABORATORIES IN MUNITIONS DEVELOPMENT
- Dr. Dave Brown, *Defense Program Director, LLNL*

4:00 pm - 5:15 pm U.S. ARMY MUNITIONS REQUIREMENTS
Moderator:
- Ms. Susan Carlson, *Chief, Munitions Division, U.S. Army, G-4*

Panelists:
- Mr. Robert Grubbs, *Deputy Division Chief, Munitions Division, U.S. Army, G-37*
- Mr. Robert Ransom, *Acting Division Chief, Munitions Division, U.S. Army, G-8*
- Mr. Jeffrey Brooks, *Ammunition Branch Chief, Fires and Force Protection Directorate, Assistant Secretary of the Army, Acquisition, Logistics, & Technology*

5:30 pm - 7:00 pm GRAND RECEPTION — PASEO

THURSDAY, MARCH 1

7:00 am - 11:30 am REGISTRATION OPEN — BALLROOM FOYER

7:00 am - 8:00 am CONTINENTAL BREAKFAST — BALLROOM FOYER

8:00 am - 8:15 am ADMINISTRATIVE REMARKS — BALLROOM A-H
- Mr. Tim Bagniefski, *Vice President, Marketing, General Dynamics-OTS; Chairman, NDIA Munitions Technology Division*

8:15 am - 9:00 am DOTC: INDUSTRY PERSPECTIVE
- Mr. Tony Melita, *Senior Advisor, NWEC Executive Committee*

9:00 am - 9:30 am ICAP REPORT
- Mr. Michael Wilson, *President, General Dynamics-OTS*; *Vice President, General Dynamics*

9:30 am - 10:00 am BREAK — BALLROOM FOYER

10:00 am - 11:30 am PM ACQUISITION PANEL
Moderator:
- Mr. James Shields, *Deputy Program Executive Officer Ammunition*

Panelists:
- COL Jeffrey Wilson, USA, *Project Director, Joint Services*
- COL Scott Turner, USA, *Project Manager, Combat Ammunition Systems*
- COL Steven Cummings, USA, *Project Manager, Close Combat Systems*
- Mr. Bill Sanville, *Deputy Project Manager, Maneuver Ammunition Systems*
- Ms. Patricia Felth, *Deputy Project Director, Joint Products*

11:30 am CLOSING REMARKS/ADJOURN

11:30 am BOX LUNCH — BALLROOM FOYER

12:30 pm GOLF TOURNAMENT

MUNITIONS EXECUTIVE SUMMIT

"ACHIEVING EFFICIENCIES ACROSS THE MUNITIONS ENTERPRISE . . . COLLABORATION, COMMUNICATION, AND COOPERATION"

The purpose of this year's Munitions Executive Summit is to address the challenges of maintaining a stable and relevant munitions enterprise amidst an un-stable DoD budget outlook. Furthermore, this summit explores the contemporary dynamics, which affect both the current and future industrial manufacturing complex, that services our warfighting capability. In addition to industry executives, this summit is attended by key Government acquisition leaders, program managers, research and technology centers, and academia involved in the U.S. munitions enterprise.

This summit is intended to create a thoughtful and meaningful discourse on the critical factors that will shape the future munitions landscape. It brings together key practitioners, within the ammunition and ordnance fields, to work on effective solutions for the U.S. warfighter and our allies.

ABOUT THE NDIA MUNITIONS TECHNOLOGY DIVISION

The Mission of the Munitions Technology Division is to maintain an open exchange of technical information among government and industry programs and technical managers, and to identify changes and trends in policy, guidance, and organizational functions that impact the development, production, maintenance, and demilitarization of munitions.

The Division is comprised of two sections: Fuze; Insensitive Munitions & Energetic Materials; and one advisory group, the Industrial Committee of Ammunition Producers (ICAP). The sections utilize periodic steering committee meetings and annual meetings to serve as forums where new concepts in products and processes are discussed.

CONFERENCE ATTIRE

Conference attire is business for civilians and uniform of the day for military. In addition, your identification badge, received upon conference check-in, must be worn at all times.

GOLF TOURNAMENT

The Golf Tournament will be held at the Arizona Grand Golf Course beginning at 12:30pm, shotgun start, on Thursday, March 1, 2012. The tournament will be followed by a cash bar and a trophy presentation, awarded to 1st, 2nd, and 3rd place, closest to the pin, and longest drive. Collared shirts and long pants or walking shorts are acceptable. Please no t-shirts, tank tops, athletic shorts, or jeans.

NATIONAL WARHEADS and ENERGETICS NWEC CONSORTIUM

THANK YOU TO NWEC FOR DONATING THIS YEAR'S BRAND-NEW SET OF GOLF CLUBS, WORTH OVER $1,000, TO BE RAFFLED OFF AT THE CONCLUSION OF THE CONFERENCE.

SPEAKER BIOGRAPHIES

MR. TIM BAGNIEFSKI

Vice President, Marketing, General Dynamics-OTS; Chairman, NDIA Munitions Technology Division

Timothy J. Bagniefski is Vice President of Marketing and Business Development for General Dynamics Ordnance and Tactical Systems. The company's core business is in munitions, with sales of approximately $1.35 billion.

Mr. Bagniefski has over 28 years of experience in the defense field. He joined Olin Corporation in 1988 as a management intern. During his nine years with Olin, Mr. Bagniefski held positions of increasing responsibility within its Winchester and Olin Ordnance Divisions.

On January 1, 1997, Olin Corporation spun off its Ordnance and Aerospace divisions into Primex Technologies, Inc., and Mr. Bagniefski was promoted to Director, International Marketing and Strategic Planning for the newly formed company.

In 2001, after the acquisition of Primex Technologies by General Dynamics, Mr. Bagniefski was promoted to Vice President, Marketing and Business Development for General Dynamics-OTS, responsible for all domestic and international business development programs for the OTS Division.

Mr. Bagniefski currently serves as the Chairman of the NDIA Munitions Division. He also serves on the Board of Directors of the Florida Federal Contractors Association.

Mr. Bagniefski's office is located at General Dynamics Ordnance and Tactical Systems, headquartered in St. Petersburg, Florida.

MG BARRY BATES, USA (RET)

Vice President, Operations, NDIA

Prior to retirement from the U.S. Army on January 1, 2003, General Bates served as the Commander, 19th Theater Support Command, Eighth U.S. Army, Republic of Korea. In this capacity, he was responsible for logistics support and installation management for U.S. Army forces in Korea, as well as for planning wartime logistics to support U.S. Army units deploying to Korea in the event of hostilities.

Previous positions held include: Commander, Army and Air Force Exchange Service, Dallas, Texas; G4, Eighth U.S. Army / J4, U.S. Forces Korea / Deputy C4, Combined Forces Command (ROK/US), Republic of Korea; and Vice Commander, Army and Air Force Exchange Service, Dallas, Texas.

During his 32 years of military experience, General Bates has held a variety of command and staff positions in both the continental United States and overseas, serving multiple tours of duty in a joint command environment. He has held both command and staff positions in supply, maintenance and field services organizations, and in the Army's Training and Doctrine Command.

SPEAKER BIOGRAPHIES — *Continued*

MR. JEFFREY BROOKS

Ammunition Branch Chief, Fires and Force Protection Directorate, Office of the Assistant Secretary of the Army, Acquisition, Logistics, & Technology

Mr. Jeffrey Brooks is currently serving as the Ammunition Branch Chief, Fires and Force Protection Directorate in the Office of the Assistant Secretary of the Army (Acquisition, Logistics, and Technology)(ASA(ALT)). He has a Bachelor of Science degree from the U.S. Military Academy, West Point, NY, and a Master of Science degree in Aeronautical Engineering from the U.S. Air Force Institute of Technology, Wright-Patterson AFB, OH. A member of the Army Acquisition Corps, he is Level III certified in Program Management and in Test & Evaluation.

His military assignments have included service in both 105mm and 155mm field artillery battalions, the Test and Evaluation Command Field Artillery Board, Combat Support Coordination Team #1 (Korea), the Program Executive Office for Tactical Missiles, and ASA(ALT).

His military education includes the Field Artillery Officer Basic and Advanced Courses, Armor Officer Advanced Course, Army Command and General Staff College, and Defense Systems Management College.

His awards include: the Legion of Merit; Meritorious Service Medal; Army Commendation Medal; Army Achievement Medal; National Defense Service Medal; Korea Defense Service Medal; Army Service Ribbon; Overseas Service Ribbon; Parachutist Badge; Army Staff Identification Badge; and the Ranger Tab.

DR. DAVE BROWN

Defense Program Director, LLNL

Dr. Brown is presently the Defense Program Director for Defense at Lawrence Livermore National Laboratory (LLNL). In this capacity, he provides overall strategic direction and key Defense Department relationship management for LLNL in applying its capabilities to meet critical U.S. defense needs. Key initiatives for Dr. Brown's Defense Program include the development and full deployment of expertise in weapons design, intelligence support (including Cyber, Space, ISR), directed energy development, and high performance computing (Mod/Sim) to support key Department of Defense program areas that include: next generation and low collateral damage conventional munitions development, early detection and countering of CBRNE attacks, covert/ harsh environment communication strategies and technologies, ISR/Persistent Surveillance and data transfer/reduction technologies, armor design and testing, new materials research, cWMD /infrastructure vulnerabilities assessments, and countering the threat of cyber attacks.

Dr. Brown joined Lawrence Livermore National Laboratory in 2007 from Battelle Memorial Institute, where he served in a number of senior line management, program management, and business development roles within its National Security Division. Earlier assignments at Dugway Proving Ground and Battelle's corporate offices included responsibilities of directing a broad range of government national security and commercial initiatives while directing planning, analysis, and implementation of new business platforms and corporate partnerships to enhance Battelle's contract research core business objectives. Dr. Brown's other responsibilities included leading brand development in areas of biomedical and biosecurity/biodefense contract research and new product development, providing program leadership and strategy development for defense department business.

MS. SUSAN CARLSON

Chief, Munitions Division, U.S. Army, G-4

Ms. Carlson was born in Augsburg, Germany, on September 10, 1957. She was commissioned a Second Lieutenant in the Ordnance Corps, upon graduation on May 22, 1981, from Southwest Missouri State University, Springfield, Missouri. She holds a Bachelor of Science in Accounting (1979) and a Masters in Business Administration (1981) from Southwest Missouri State University. Her military education includes the Ordnance Officer Basic and Advanced Courses, Combined Arms Services Staff School (CAS3), and the Command and General Staff College.

Ms. Carlson spent 24+ years on active duty, working in munitions-specific and logistics-oriented assignments. Following commissioning, 2LT Carlson was assigned to the 27th Ordnance Company, 59th Ordnance Brigade, Buren, Germany, serving as a Special Weapons Officer. She was then assigned to the Permissive Action Link Detachment, 59th Ordnance Brigade, as the Operation Officer. Following completion of her advanced course and contracting officer representative training, CPT Carlson was assigned to Hawthorne Army Ammunition Plant as the Executive Officer. Following company command in the 6th Ordnance Battalion in Camp Humphreys, Korea, CPT Carlson became the Division Ammunition Officer for the 1st Infantry Division and accompanied the Big Red One to Operation Desert Shield/Desert Storm. Her follow-on assignments included S-3 for the 701st Main Support Battalion at Fort Riley, KS, and Combat Trainer for the Battle Command Training Program at Fort Leavenworth, KS. MAJ Carlson was then assigned to the 21st TAACOM as the Chief of Plans and Operations and moved to the 29th Support Group as the Support Operations Officer. Due to her expertise, LTC Carlson was chosen to be the J-4 for Combined/Joint Task Force Fervent Archer for EUCOM for a year. Following that assignment, LTC Carlson went to the Department of the Army, G-4 for an assignment as the Acting Division Chief, Munitions Division, Office of the Deputy Chief of Staff, G-4, Headquarters, Department of the Army, Pentagon in September 2000.

Upon retirement, Ms. Carlson applied for and was hired as the Chief, Munitions Division for the Office of the Deputy Chief of Staff, G-4, Headquarters, Department of the Army. She has held that position since July 11, 2005. Her civilian education includes Supply Chain Management and the Advanced Civilian Leadership Course.

Her awards include: the Bronze Star; Meritorious Service Medal with 2nd Oak Leaf Cluster; Joint Service Commendation Medal; U.S. Army Commendation Medal with 2nd Oak Leaf Cluster; National Defense Service Medal, 2nd Award; Southwest Asia Service Medal, 1 Bronze Service Star; Global War on Terrorism Service Medal; Korean Defense Service Medal; Army Service Ribbon; Overseas Service Ribbon with Numeral 2 Device; NATO Medal; Saudi Arabia Kuwait Liberation Medal; Kuwait Liberation Medal; Meritorious Unit Citation; Parachute Badge; and Army Staff Identification Badge.

Ms. Carlson resides in Hyattsville, Maryland.

SPEAKER BIOGRAPHIES — *Continued*

COL STEVEN CUMMINGS, USA

Project Manager, Close Combat Systems

COL Steven F. Cummings entered the Army in 1986 with a commission from the United States Military Academy, West Point, New York. His previous assignments include: Program Executive Office (PEO) Ammunition Forward, Bagram, Afghanistan; Project Director, Joint Services, PEO Ammunition, Picatinny Arsenal, New Jersey; Product Manager Terminal High Altitude Area Defense (THAAD) Launcher, Missile Defense Agency, Huntsville, Alabama; Professor, Systems Acquisition Management, Defense Acquisition University, Fort Belvoir, Virginia; Project Manager Combat Systems Liaison Officer to Operation Iraqi Freedom, Camp Arifjan, Kuwait; Department of the Army Systems Coordinator (DASC), Bradley Fighting Vehicle, Assistant Secretary of the Army, Acquisition, Logistics, and Technology (ASA(ALT)); Ground Combat Vehicle Research and Development Officer, Science and Technology Center-Europe, Wiesbaden, Germany; Assistant Project Manager, Armor and Horizontal Technology Integration, Project Manager Ground Systems Integration, PEO Ground Combat and Support Systems, Warren, Michigan; Admissions Officer, U.S. Military Academy, West Point, New York; Company Commander D Company, 2nd Battalion, 13th Armor Regiment; Combat Developer, Armor Center Directorate of Combat Developments; and Platoon Leader and Battalion S-4, 2nd Battalion, 10th Cavalry Regiment, 194th Separate Armor Brigade, Fort Knox, Kentucky.

COL Cummings has a Bachelor of Science from the U.S. Military Academy, a Master of Business Administration from Clemson University, and a Master of Strategic Studies from the U.S. Army War College. He is a graduate of the Armor Officer Basic and Advanced Course, Army Command and General Staff College, the Defense Systems Management College Program Manager's Course, and the Army War College.

His awards include: the Bronze Star; the Defense Meritorious Service Medal with Oak Leaf Clusters; the Army Meritorious Service Medal with Four Oak Leaf Clusters; the Joint Service Commendation Medal; the Army Commendation Medal with Two Oak Leaf Clusters; the Joint Service Achievement Medal; the Army Achievement Medal; the Global War on Terrorism Expeditionary Medal; the Afghanistan Campaign Medal; the NATO Medal; the Army Staff Identification Badge; and the Parachutist Badge.

MS. KAREN DAVIES

Senior Vice President & President, ATK Armament Systems

Karen Davies is Senior Vice President and President, ATK Armament Systems, for Alliant Techsystems (ATK). The company has more than 18,000 employees and revenues of approximately $4.8 billion.

Karen was named to her current position in 2010. ATK Armament Systems has core competencies in efficient, high-rate manufacturing; energetics processing; integrated weapon systems; gun-launched, guided weapons; global supply chain management; and facility management.

Karen previously served eight years as Vice President and General Manager for ATK Small Caliber Systems at the Lake City Army Ammunition Plant. During her tenure, she tripled ammunition production, engaged the company in the supply of non-standard weapons and ammunition, and implemented the U.S. Army's modernization program.

A 30-year veteran of ATK, Karen has a strong background in program management and operations. She has held key leadership posts in material management, strategic planning, and business and contracts management. Her previous positions include Vice President, Strategic Programs for ATK's Aerospace Group, and Vice President, Information Technology/Chief Information Officer for ATK.

Karen holds a bachelor's degree in Business Management and a Master of Business Administration from the University of Utah. She is a graduate of the Defense Systems Program Management Course.

MR. LEE DIXSON

Senior Vice President, Robison International, Inc.

Lee Dixson joined Robison International, Inc. in February of 2003 as Director, Government Relations, and currently serves as Senior Vice President.

Lee has more than 35 years of experience working in the financial management field in the Department of Defense. During the last 19 years of federal service, he served in various positions as a member of the Senior Executive Service (SES). He was a key senior financial advisor to the Commandant of the U.S. Marine Corps, the Chief of Naval Operations, and the Secretary of the Navy. Lee has broad experience in defining, supporting, and defending the resource requirements, spanning virtually all aspects of the defense department budget, including operations, military pay, acquisition, R&D, and military construction. He has appeared as a witness before the Congressional Defense Committees and was very active within the Department of Defense on all issues regarding resource allocation.

During his federal career, Lee received four Presidential Rank awards, as well as the Department of the Navy Distinguished Civilian Service Award.

Lee retired from the Federal Government in March of 2001. Prior to joining Robison International, he worked for IBM Business Consulting Services.

He is a graduate of the College of William and Mary and was awarded a Fellowship in Public Affairs at Stanford University. He is married to Carolyn, a retired special education teacher, and they have a son and a daughter.

MR. MATTHEW DONOHUE

Director for Ground Systems, Office of Deputy Assistant Secretary of Army

Mr. Donohue is responsible for the oversight and coordination of the Army's Science and Technology efforts for Ground Systems. His portfolio includes medium and large-caliber weapons, munitions, missiles, directed energy weapons, vehicle ballistic and blast protection, vehicle power and mobility, unmanned ground systems and countermine/counter IED efforts. Mr. Donohue's goal is to develop a prioritized, balanced portfolio of technologies focused on current and future Army Ground Capabilities that empower, unburden, and protect our soldiers and warfighters, and to transition those technologies into Army acquisition programs and/or current forces, where possible. In particular, Mr. Donohue formulates Army strategies, tactics, and budget/action plans to defend, acquire, and allocate Applied Research and Advanced Technology Development Resources in the Ground Systems Area for programs executed by the Army Laboratories and Research, Development, and Engineering Centers under the Army Material Command, Space and Missile Defense Command, and the Corps of Engineers.

Mr. Donohue previously served as Deputy Director for Weapons Technology Office of the Assistant Secretary of the Army for Acquisition, Logistics, and Technology (ASA(ALT)). Mr. Donohue retired from the Unites States Army in 2002 as a Lieutenant Colonel after serving 20 years on active duty as an Ordnance and Acquisition Officer.

Mr. Donohue was a Distinguished Military Graduate at the University of Delaware in 1982, where earned a B.S. in Mechanical Engineering. He received an M.B.A. in Acquisition Management from Babson College, Wellesley, MA, in 1992. A member of the Army Acquisition Corps since 1997, he has obtained Level III certification in Program Management; Business – Financial Management.

SPEAKER BIOGRAPHIES — *Continued*

MS. PATRICIA FELTH

Deputy Project Director, Joint Products

Patricia Felth grew up in Waterbury, CT, and earned a B.A. degree in English in 1974 from Tufts University, and an MBA in Management from Syracuse University in 1982.

Ms. Felth began her Army career in 1975 as a Comptroller Program Analyst Intern in the Management Review and Analysis Division at Watervliet Arsenal in Watervliet, NY. Ms Felth learned project management as a program analyst in the Tactical Satellite Communications Division in PM-SATCOM/US Army Satellite Communications Agency at Fort Monmouth, NJ, from 1977 to 1984. She completed the Project Management Development Course at Fort Lee, VA in 1980, and in 1982, earned a Masters in Business Administration through the Army Comptrollership Program at Syracuse University in Syracuse, NY.

Ms. Felth moved to Picatinny Arsenal, NJ, as Chief of the AMCCOM (Dover) Management Review and Analysis Division in 1984, and was promoted to Chief of the Program and Budget Division Investment Appropriations Branch, managing RDT&E and Procurement Appropriations, from 1985 to 1987.

Ms. Felth worked for 15 years in the Office of the Army's Product Manager for Mortars as Business Manager and then as Deputy Product Manager. During these years, Ms. Felth oversaw development, production, fielding, and product improvement of the 81mm and 120mm mortar systems with accompanying ammunition families. She also oversaw initiation and development of the Improved Mortar Ballistic Computer, the Mortar Fire Control System, and the Precision Guided Mortar Munition. From 2002 - 2009, Ms. Felth served as PEO Ammunition's Deputy Project Manager for Close Combat Systems, managing a broad, diverse portfolio of over 200 programs, funded at up to $1.5B in several product lines: Networked Munitions, Countermine Systems, IED Defeat, Non Lethal Systems and Munitions, Grenades, Pyrotechnics, Shoulder-Launched Munitions, Demolitions, and EOD Equipment. In 2009, PEO Ammunition reassigned Ms. Felth to establish a new joint project management organization, responsible for acquisition sustainment of Bombs, Navy Gun Ammunition, Energetic, and CAD PAD items for Air Force, Navy, and Army customers. She is currently serving as Deputy Project Director for Joint Products.

Ms. Felth's additional duties have included several years as an instructor of RDT&E and PA financial management topics in AMC's Resource Management for Executives Workshop and active leadership on several teams addressing ammunition acquisition improvement: the OSD-chaired Ammunition Procurement Improvement Team, the PNNL Ammunition Base Study Implementation Team, and the TRIAD Executive Council. In 2007, she co-chaired a Joint Munitions and Lethality Life Cycle Management Command Ammunition Sourcing and Industrial Base Study, addressing ways to integrate consideration of industrial base management objectives in ammunition acquisition strategies.

Ms. Felth is Acquisition Corps certified, Level 3 in the Program Management. She has completed the Harvard Senior Executive Fellowship Program, and the Defense Acquisition University's PMT 401 Project Management Course and PMT 402 Executive Program Management Course. She has been recognized with the NDIA Firepower Award, Federal Women's Program Supervisor of the Year, The Army Achievement Medal for Civilian Service, and numerous Army Special Act and performance awards.

Ms. Felth and her husband, Thomas Molski, reside in Sparta, NJ, and have three adult children. She volunteers on the local Tufts University Alumni Admissions Committee and enjoyed 10 years as a Girl Scout troop leader.

MR. JOSE GONZALEZ

Director, OUSD (AT&L) Land Warfare & Munitions

Mr. Jose Gonzalez is currently serving as Director, Land Warfare and Munitions within the Office of the Under Secretary of Defense (Acquisition, Technology and Logistics), where he provides policy and oversight of the DoD's land warfare and munitions portfolio. Mr. Gonzalez became permanently employed with the Office of the Secretary of Defense (OSD) in 2001. He has taken on a wide variety of assignments while in OSD, including special assignments in the areas of C4I, munitions, and Homeland Defense. Mr. Gonzalez serves as the U.S. Key Delegate to the NATO Conference of National Armaments Directors, Ammunition Safety Group (AC 326).

Mr. Gonzalez has worked for the Department of Defense since 1985. He started his career in the defense industry at Vitro Corporation, Silver Spring, MD, as a Software Engineer for the U.S. Navy's TARTAR Mk 14 Weapon Direction System. In 1989, he entered Federal Government service at the U.S. Navy's Research & Development Laboratory, Naval Surface Warfare Center, Dahlgren, VA. While at the laboratory, he served as Technical Direction Agent and System Engineer for the U.S. Navy's Mk 41 Vertical Launching System, Facility Manager for the Navy's Program Assurance Facility, Head of the Advanced Launching Systems Group, and Head of the Advanced Control Systems Engineering Branch. During this time, he took on two developmental assignments; first as the Combat Systems Department Head for the U.S. Navy's Smart Ship Project, and second, as a Staff Specialist in OSD, supporting the office of Naval Warfare.

Mr. Gonzalez received a Bachelor of Science degree in Electrical Engineering from the University of Maryland in 1985. He earned a Masters Degree in Public Administration from Virginia Tech in 2005. He is a graduate of the Leadership for a Democratic Society Program from the Federal Executive Institute.

SPEAKER BIOGRAPHIES — *Continued*

MR. ROBERT GRUBBS

Deputy Division Chief, Munitions Division, U.S. Army, G-37

Mr. Robert Grubbs arrived in HQDA G-37/TRA in January 2006. He is the Deputy for the Army Munitions Management Division. He came to the Pentagon from the Army Training Support Center, Training and Doctrine Command, Fort Eustis, VA.

Mr. Grubbs enlisted in the United States Army as an Infantryman in July of 1983. In 1992, Mr. Grubbs was commissioned as a 2nd Lieutenant in aviation through the Officer Candidate School. He served in numerous positions of responsibility at Fort Benning, Italy, Fort Bragg, Fort Rucker, Fort Riley, Fort Hood, and Fort Eustis. He served as a Platoon Sergeant in the 3/325 ABN in Vicenza, Italy, and as a Platoon Leader in 1-4 Cavalry, 1st Infantry Division at Fort Riley, KS. While serving at Fort Hood with the 4th Infantry Division, he was the AVIM Production Control Officer and Commander of Fox Troop, 1-10 Cavalry.

Mr. Grubbs' military education includes PLDC, BNCOC, Jumpmaster School, Flight School, Aviation Maintenance Managers Course, Combined Logistics Officers Advanced Course, and the Combined Arms Service and Staff School. He holds a Bachelors of Arts in Italian Language and History from the University of Maryland, a Masters in Logistics Management, and a Masters in Business Administration from the Florida Institute of Technology. During his twenty years of active duty service, he received the Master Parachutist Badge, EIB, Aviators Badge, Meritorious Service Medal with Two Oak Leaf Clusters, Army Commendation Medal with Five Oak Leaf Clusters, Army Achievement Medal with Four Oak Leaf Clusters, Good Conduct Medal Second Award, Humanitarian Service Medal, Southwest Asia Service Medal with Two Service Stars, Joint Meritorious Unit Award, the Army Superior Unit Award, and was inducted into the Order of St. George.

BRIG GEN FRANCIS KELLEY, JR., USMC

Commander, Marine Corps Systems Command

Brigadier General Kelley, a native of Philadelphia, PA, graduated from the University of Notre Dame in 1983 with a degree in Aerospace Engineering and was the recipient of the Naval ROTC Donald R. Bertling Award. Upon completion of Officer Candidate School (OCS), he was commissioned a Second Lieutenant in the United States Marine Corps.

In February 1984, he completed The Basic School and received orders to Pensacola, FL, for flight training. He then proceeded to the 453rd Flight Training Squadron (FTS) at Mather Air Force Base, CA, for electronic warfare training, where he was a distinguished graduate and the recipient of the Colonel Mike Gilroy Award for leadership and training excellence.

After completing EA-6B Prowler training at Whidbey Island, WA, Brigadier General Kelley reported to Marine Tactical Electronic Warfare Squadron 2 (VMAQ-2), where he participated in the Unit Deployment Program, in addition to Operations Desert Shield and Desert Storm as the Contingency Plans and Tactics Officer.

He received orders to Air Test and Evaluation Squadron (AIRTEVRON) FIVE (VX-5), where he was the Electronic Warfare Branch Head. He then reported to Naval Air Systems Command (NAVAIRSYSCOM) as the Avionics Systems Project Officer (ASPO) for the EA-6B.

He returned to the fleet as the Operations Officer for VMAQ-1 and then as the Assistant Operations Officer for Marine Aircraft Group 49 (MAG-49). He reported to the Pentagon as an Action Officer to the Deputy Assistant Secretary of the Navy (DASN) for Expeditionary Forces Program.

He attended the Marine Corps War College and taught at the Command and Staff College. He transferred to Marine Corps Systems Command (MCSC), Quantico, VA, where he was the Program Manager for Unmanned Systems. Brigadier General

Kelley's next assignment was Military Assistant to Dr. Delores Etter, the Assistant Secretary of the Navy (ASN) for Research, Development, and Acquisition (RDA).

In August 2007, Brigadier General Kelley was assigned to the position of MCSC's Program Manager for Training Systems (PM TRASYS) in Orlando, FL. In August 2009, Brigadier General Kelley was reassigned as MCSC's Chief of Staff and took the helm as its Commander in July 2010.

MR. KEVIN KNOTTS

Principal Consultant, CSC

Kevin Knotts is a Principal Consultant with the Computer Sciences Corporation's (CSC) Federal Consulting (Defense Logistics) Strategy Practice, and a certified Project Manager Professional.

Kevin has over 30 years experience in logistics. The first 21 years were in Army logistics operations, as an Ordnance Officer. Kevin's assignments were in both the Army's wholesale logistics and field service organizations. His wholesale logistics experience was at the Tank and Automotive Command where he was a Contracting/Project Officer, and later the Executive Officer to the Commanding General. His field service positions included Army G4 Staff as the Readiness Branch Chief, Battalion Commander, and the 1st Armored Division DISCOM XO & S3. During Desert Storm, he was the Executive/Operations Officer of the 66th Maintenance Battalion and deployed, supporting 10th Special Forces Group, Operations Support Command.

Kevin traded Army Green for Corporate Grey in 1998. He cut his teeth in consulting with PricewaterhouseCoopers and IBM, focusing on industrial base supply chain logistics. Kevin then partnered with Dr. Jay Sculley (former Assistant Secretary of the Army for Acquisition Logistics and Technology) at Horne Engineering in 2004, and established a supply chain logistics group, specializing in munitions. In 2005, Kevin moved his group to CSC. He currently manages a logistics consulting group with expertise in supply chain logistics, to include supply chain assessments, industrial base assessments, acquisition, public private partnerships, and business process re-engineering.

Kevin holds a Bachelor of Arts degree in Economics from the Virginia Military Institute and a Masters Degree in Business Administration, with a concentration in Finance and Accounting from Babson College. His military schooling includes the Materiel Acquisition Management Project Managers Course and several contract management courses required for an unlimited Procuring Contracting Officer's Warrant.

Kevin's service awards include: The Legion of Merit, Bronze Star, Army Staff Badge, Parachute Badge, various other decorations for Gulf War Service, and the Army Materiel Command's Besson Award for Contract Excellence.

SPEAKER BIOGRAPHIES — *Continued*

MR. RANDY LANSING

President, AMTEC

Randy Lansing founded AMTEC Corporation in 1995, and he has served as President since that time. Today, AMTEC is a manufacturer of fuzes and ammunition and is one of two 40MM ammunition system prime contractors. In 2001, AMTEC was sold to National Presto Industries, Inc. In 2003, AMTEC purchased Spectra Technologies in Camden, Arkansas. Spectra provides Load, Assemble, and Pack (LAP) services for Claymore mines, 40MM ammunition, Small Diameter Bomb, M67 Grenade, and other munitions. In 2006, AMTEC purchased Amron LLC, located in Antigo, Wisconsin. Amron is the sole producer of medium-caliber cartridge cases for U.S. DoD programs. In 2011, AMTEC purchased ALS Technologies, a producer of less lethal munitions. Mr. Lansing is responsible for all of the companies within the Defense Division (AMTEC, Spectra, Amron & ALS), within National Presto Industries, Inc.

Prior to AMTEC, Mr. Lansing was the Executive Vice President of Accudyne Corporation, which, after a series of acquisitions, was owned by Alliant Techsystems, Inc (ATK). Accudyne was a defense contractor, primarily engaged in manufacturing fuzes. Earlier in Mr. Lansing's career, he was employed by the Army Materiel & Chemical Command (HQ, AMCCOM) as a Contract Specialist.

Mr. Lansing is active on the Board of the Industrial Committee of Ammunition Producers (ICAP). He is also a member of the National Defense Industrial Association (NDIA) and the Association of the United States Army (AUSA).

BG JONATHAN A. MADDUX, USA

Program Executive Officer Ammunition

As Program Executive Officer Ammunition, Brigadier General Jonathan A. Maddux leads the mission to develop and procure conventional and leap-ahead munitions to increase combat power for the warfighter. BG Maddux's previous acquisition assignments include: Chief of Staff, Office of the Assistant Secretary of the Army Acquisition, Logistics, and Technology (ASA(ALT)); Project Manager, Network Systems Integration, Future Combat Systems; Product Manager Combat Identification; Executive Officer, ASA(ALT); Deputy for System Management; Joint Surveillance and Target Attack Radar System and Land Warrior; Department of the Army System Coordinator; and Communications Director, Army Space Program Office.

BG Maddux's command and staff assignments include: Squad Leader, 82nd Airborne Division Military Police Company; Platoon Leader, 24th Signal Battalion; Aide-de-Camp for the Commander, Information Systems Engineering Command; Communication and Electronic staff officer, 2nd Battalion, 5th Field Artillery, 1st Infantry Division (Forward); Company Commander, 38th Signal Battalion, 56th Field Artillery Command (Pershing II); Platoon Trainer, 4th Battalion, Ranger Training Brigade; and Commander, Signal Detachment, 75th Ranger Regiment.

BG Maddux holds two baccalaureate and three master degrees culminating in a Masters in Telecommunications from the University of Colorado (Boulder). His military education includes Signal Officer Basic and Advanced Courses, Project Management Course, Defense Systems Management College, Army Command and General Staff College, and the Army War College.

His awards include: the Legion of Merit with Two Oak Leaf Clusters; Meritorious Service Medal with Three Oak Leaf Clusters; Army Commendation Medal with Five Oak Leaf Clusters; Army Achievement Medal with One Oak Leaf Cluster; Southwest Asia Service Medal; Kuwait Liberation Medal; Good Conduct Medal; Master Parachutist Badge; Korean and French Parachutist Badge; Air Assault Badge; Army Staff Identification Badge; and the coveted Black and Gold Ranger Tab.

MR. TONY MELITA

Senior Advisor, NWEC Executive Committee

Tony Melita is an internationally recognized expert in munitions and land warfare systems acquisition forged over 31 years of service with the U.S. Department of Defense (DoD). He has a reputation for fairness and integrity when operating as a day-to-day tactician, and as a visionary when laying the foundation for strategic outcomes. He has a long track record of shaping successful defense acquisition programs and for developing strong relationships between government and industry.

Mr. Melita had various assignments as a DoD civilian, ranging from hands-on technology development, to serving as a Special Assistant to the Under Secretary of Defense for Acquisition, and concluding as the Director for Land Warfare and Munitions within the Office of the Under Secretary of Defense for Acquisition, Technology, and Logistics.

In 1987, Mr. Melita joined the Office of the Secretary of Defense after nine years as an Army civilian. In August 1997, he was promoted into the Federal Government's Senior Executive Service and served as the Director of the Office of Munitions until October 2002, when a re-organization challenged him to provide leadership over the Office of Land Warfare as well. In this role, he was responsible for the vertical integration of warheads, explosives, and fuze technologies into munitions systems, and with the development and acquisition of all Land Combat systems, including Army and Marine Corps tracked and wheeled vehicles and rotary wing aviation systems and programs.

Mr. Melita is a three-time recipient of the Office of the Secretary of Defense Medal for Exceptional Civilian Service; a recipient of a Presidential Rank Award as a Meritorious Executive; a recipient of the National Defense Industrial Association's Gold Medal; and a recipient of the National Ethnic Coalition's Congressionally-Authorized Medal of Honor.

Mr. Melita is a member of the American Helicopter Society, the Marine Corps Aviation Association, the Association of the United States Army, and the National Defense Industrial Association. He serves on the Board of Directors of the Robotics Technology Consortium, and as a Senior Advisor to the National Warheads and Energetics Consortium and the Vertical Lift Consortium.

Mr. Melita was born in Corona, New York, and now resides in Alexandria, Virginia. He earned a B.S. in Forest Engineering from the State University of New York College of Environmental Science and Forestry, a B.S. in Engineering from Syracuse University, and an M.S. in Engineering Management from Florida Institute of Technology. Mr. Melita is a graduate of the Program Managers Course at the Defense Systems Management College, Leadership for a Democratic Society program at the Federal Executive Institute, and the Senior Executive Fellows program at the John F. Kennedy School of Government at Harvard University.

SPEAKER BIOGRAPHIES — *Continued*

COL PERRY OAKS, USAF

Chief of the Munitions Division, Hill AFB, Utah

Colonel Perry R. Oaks is the Chief of the Munitions Division, Hill AFB, Utah. The division controls the largest CONUS Air Force conventional munitions stockpile and storage areas, with over 3,375 acres of area and 249 facilities through two squadrons, providing essential wartime munitions to the entire DoD for no-notice and short-notice taskings. Colonel Oaks graduated from Brigham Young University, Provo, Utah, in June 1985, and was commissioned a Second Lieutenant in the United States Air Force. He is a Career Logistics Officer who has served at the Wing, Logistics Center, MAJCOM, and Air Staff levels. He has commanded maintenance squadrons supporting A-10, F-15, and F-16 aircraft. Prior to his current assignment, Colonel Oaks served as the Expeditionary Maintenance Group Commander at Joint Base, Balad, Iraq.

EDUCATION

1985 Bachelor of Science degree in Business Management, Brigham Young University, Provo, Utah
1989 Master of Science degree in Logistics Management, Air Force Institute of Technology, Wright-Patterson AFB, Ohio
1990 Squadron Officer School, Maxwell AFB, Alabama
1998 Air Command and Staff College (Correspondence)
2002 Air War College (Correspondence)
2008 Industrial College of the Armed Forces, National Defense University, Fort McNair, Washington D.C.
2008 Master of Science in National Resource Strategy, Industrial College of the Armed Forces, Fort McNair, Washington D.C.

ASSIGNMENTS

1. August 1985 - March 1986, Student, Aircraft Maintenance Officer Course, Chanute AFB, IL
2. March 1986 - April 1989, Officer-in-Charge, 612th and 613th Aircraft Maintenance Unit, Maintenance Operations Division Officer, 401st Tactical Fighter Wing, Torrejon AB, Spain
3. May 1989 - September 1990, Student, Air Force Institute of Technology, Wright-Patterson AFB, OH
4. September 1990 - June 1993, F-15 Avionics Action Officer and Fighter Product Improvement Manager, Fighter Branch, Headquarters Air Combat Command, Langley AFB, VA
5. June 1993 - November 1994, Logistics Career Broadener, Aircraft Directorate, Ogden Air Logistics Center, Hill AFB, UT
6. November 1994 - June 1996, Aide-de-Camp to Commander, Ogden Air Logistics Center, Hill AFB, UT
7. July 1996 - July 1997, Chief, Congressional Liaison Activities, Program Integration Division, Headquarters U.S. Air Force, Pentagon
8. July 1997 - June 1999, Precision Guided Munitions Program Element Monitor, Power Projection Division, Headquarters U.S. Air Force, Pentagon
9. July 1999 - July 2000, Maintenance Officer, 27th Fighter Squadron, Langley AFB, VA (February 2000 - April 2000, Maintenance Officer, 27th Expeditionary Fighter Squadron, Incirlik AB, Turkey)
10. July 2000 - June 2002, Commander, 1st Logistics Support Squadron, Langley AFB, VA (December 2001 - March 2002, Commander, Expeditionary Logistics Support, Ali Al Salem AB, Kuwait)
11. July 2002 - January 2003, Commander, 354th Maintenance Squadron, Eielson AFB, AK
12. January 2003 - June 2004, Commander, 354th Aircraft Maintenance Squadron, Eielson AFB, AK
13. June 2004 - September 2004, Deputy Commander, 354th Maintenance Group, Eielson AFB, AK (June 2004 - September 2004, Commander, 355th Expeditionary Aircraft Maintenance Squadron, Bagram AB, Afghanistan)
14. October 2004 - June 2005, Chief, Strategic Planning, Plans Division, Headquarters Air Force Materiel Command, Wright Patterson AFB, OH
15. June 2005 - July 2007, Executive Officer to the Commander, Air Force Materiel Command, Wright-Patterson AFB, OH
16. August 2007 - June 2008, Student, Industrial College of the Armed Forces, Fort McNair, Washington D.C.
17. July 2008 - July 2009, Commander, 332nd Expeditionary Maintenance Group, Joint Base Balad, Iraq
18. Aug 2009 - July 2010, Commander, 784th Combat Sustainment Group, Hill AFB, UT
19. July 2010 - Present, Director, Munitions Division, Hill AFB, UT

MAJOR AWARDS AND DECORATIONS
Bronze Star Medal, Meritorious Service Medal with Five Oak Leaf Clusters, Air Force Commendation Medal with One Oak Leaf Cluster, Air Force Outstanding Unit Award with Two Oak Leaf Clusters, Air Force Organizational Excellence Award with Two Devices, Southwest Asia Service Medal with Two Devices, and Global War on Terrorism Expeditionary Medal

EFFECTIVE DATES OF PROMOTION
Second Lieutenant, July 21, 1985
First Lieutenant, July 21, 1987
Captain, July 21, 1989
Major, May 1,1997
Lieutenant Colonel, November 1, 2001
Colonel, May 1, 2007 (Current as of August 2010)

RADM CLARKE ORZALLI, USN

Commander, Surface (SEA-21) Naval Sea Systems Command Ordnance Safety (SEA-OOV)

RADM Orzalli, currently assigned as Naval Sea Systems Command (NAVSEA) Commander, is the son of a retired Navy Captain. He graduated with distinction from the U.S. Naval Academy in 1978.

At sea, he served aboard USS Snook (SSN 592) as an Engineering Division and Weapons Officer, and as USS Helena's (SSN 725) Engineering Officer. Ashore, Orzalli has served at the U.S. Naval Academy, as well as tours at naval shipyards in Mare Island, Puget Sound and Portsmouth.

Orzalli was the 45th Shipyard Commander at Puget Sound Naval Shipyard from 2002 - 2005. During his command tour, he assumed additional duties in establishing the Northwest Regional Maintenance Center.

Following selection to flag rank, Orzalli was the Deputy Director, Fleet Readiness Division, OPNAV (N43B); Commanding Officer, Mid-Atlantic Regional Maintenance Center; then established Commander, Regional Maintenance Centers. Most recently, Orzalli was the Director, Fleet Maintenance on the Staff of Commander, U.S. Fleet Forces Command.

His service decorations include: the Legion of Merit with Four Stars; the Meritorious Service Medal with Two Stars; Navy Commendation Medal with One Star; Navy and Marine Corps Achievement Medal with Three Stars; and various other unit and operational awards.

Orzalli holds a Bachelor of Science degree in Marine Engineering from the U.S. Naval Academy, Naval Engineer and Masters of Materials Science and Engineering degrees from Massachusetts Institute of Technology, and a Master of Science in Systems Management from Golden Gate University.

SPEAKER BIOGRAPHIES — *Continued*

BG (P) GUSTAVE F. PERNA, USA

Commanding General, Joint Munitions Command

Brigadier General (Promotable) Gustave F. Perna assumed command of Joint Munitions & Lethality Life Cycle Management Command and Joint Munitions Command on November 16, 2010. On Nov. 10, 2011, Brigadier General Gustave F. Perna was confirmed for promotion to Major General by the U.S. Senate.

Brigadier General Perna graduated from Valley Forge Military Academy with an Associate Degree in Business Administration. Graduating as a Distinguished Military Graduate, he was commissioned as a Second Lieutenant, Infantry Officer. He earned a Bachelor of Science Degree in Business Management from University of Maryland and a Masters Degree in Logistics Management from Florida Institute of Technology. His military education includes Infantry Officer Basic Course, Ordnance Officer Advance Course, Logistics Executive Development Course, Support Operations Course, Command and General Staff College, and Industrial College of the Armed Forces.

Brigadier General Perna's command assignments include: Commander, B Company, 143rd Ordnance Battalion, Aberdeen Proving Ground, Maryland; Deputy Commanding Officer for the 64th Corps Support Group, 13th Corps Support Command, Fort Hood, Texas; Commander 64th Forward Support Battalion, 3rd Brigade, 4th Infantry Division, Fort Carson, Colorado, where he deployed the battalion to combat operations during OIF I; Commander of the 4th Sustainment Brigade, where he deployed the brigade to combat operations during OIF 05-07; Commander, Defense Supply Center Philadelphia, Defense Logistics Agency, where he was responsible for the procurement of over $14.5 billion worth of food, clothing, textiles, medicines, medical supplies, construction, and equipment items for America's warfighters and other customers worldwide

Brigadier General Perna's key staff assignments include: G4 Maintenance Officer, 13th COSCOM where he deployed to Somalia as a member of the Joint Task Force Support Command; 544th Maintenance Battalion Support Operations Officer and Battalion Executive Officer, 13th COSCOM; DISCOM Executive Officer and G4, 1st Cavalry Division, where he deployed to Bosnia; Ordnance Branch Chief, Human Resources Command; Executive Officer to the Director of DLA, where he directly supported the Director's mission of providing the Army, Navy, Air Force, Marine Corps, and other federal agencies, with logistics, acquisitions, and technical services support. Most recently, he completed his third tour in Iraq as the Director of Logistics, J4, for United States Forces-Iraq, where he was responsible for sustainment plans, policies, and procedures for strategic, operational and tactical logistics support, and services to sustain coalition, joint forces, and civilians.

Brigadier General Perna's awards and decorations include: the Defense Superior Service Medal with One Oak Leaf Cluster; Legion of Merit; Bronze Star Medal with One Oak Leaf Cluster; Defense Meritorious Service Medal; Meritorious Service Medal with Four Oak Leaf Clusters; Army Commendation Medal with Two Oak Leaf Clusters; and Army Achievement Medal with One Oak Leaf Cluster. His badges include Parachutist Badge and Air Assault Badge.

Brigadier General Perna is married to the former Susan L. Pollack, and they have two sons.

MR. BARRY J. PIKE

Deputy Program Executive Officer, Program Executive Office, Missiles and Space

Mr. Pike was selected for the Senior Executive Service in January 2010. He is currently the Deputy Program Executive Officer for the Program Executive Office for Missiles and Space (PEO MS) at Redstone Arsenal, AL. He is responsible for the research, development, engineering, integration, test and evaluation, product assurance, procurement, production, distribution, product improvement, sustainment, demilitarization, and international program aspects, for assigned missile and space systems. His

responsibilities include: leadership, management, and execution of all financial, personnel, and materiel resources, including an annual budget of over $3.5 billion.

Prior to this, Mr. Pike was the Chief of Staff for PEO MS, where he led the PEO staff and assisted the PEO and DPEOs in managing the development, integration, testing, production, fielding, and sustainment of assigned systems. In 1992-1999, he served in a variety of key leadership positions in the Army National Missile Defense Ground Based Elements Program Office, including the Deputy Program Manager, Chief of the Program and Acquisition Management Division, Assistant Program Manager for Program Planning, and Chief of the System Engineering and Analysis Branch. In the DPM position, he shared responsibility with the SES Program Manager in directing the development, testing, integration, and deployment planning of the ground-based NMD elements, including the ground-based interceptor, ground-based radar, and associated battle management/command, control, and communications. In 1991, Mr. Pike was selected for a prestigious, one-year developmental assignment in the Office of the Under Secretary of Defense for Acquisition at the Pentagon. As an OSD Staff Specialist, he led the THAAD Milestone I Defense Acquisition Board (DAB) coordination efforts across the Services, Joint Staff, and OSD Staff. In 1988-1991, Mr. Pike led the Army's Anti-Satellite (ASAT) Initiative and was assigned as the Army focal point for ASAT management. He led the program through the Milestone 0 and Milestone I DAB Reviews, resulting in the initiation of the Kinetic Energy (KE) ASAT program and the establishment of the KE ASAT Joint Program Office. In the KE ASAT JPO, Mr. Pike led various systems engineering teams.

Mr. Pike has received numerous government and defense industry awards, including the Meritorious Civilian Service Award, the Superior Civilian Service Award, two Commander's Awards for Civilian Service, the OSD Award for Excellence, the National Defense Industrial Association Materiel Acquisition Award, and the Ancient Order of Saint Barbara's for Air Defense Artillery. He has also been nominated three times for the Redstone/Huntsville AUSA Civilian of the Year Award. He is Level III certified in Program Management and Systems Planning, Research, Development, and Engineering career fields.

Mr. Pike is a native of Hartselle, Alabama. He graduated with honors from Auburn University with Bachelor and Master Degrees in Chemical Engineering. While at Auburn, he was elected as the Student Government Association Senate and was a member of numerous professional engineering organizations and honor societies, including Tau Beta Pi. He is a graduate of the Defense Systems Management College Program Management Course and is a member of the Army Acquisition Corps.

SPEAKER BIOGRAPHIES — *Continued*

MR. ROBERT RANSOM

Acting Division Chief, Munitions Division, U.S. Army, G-8

Mr. Robert Ransom became the Deputy, Munitions Division, Force Development Directorate, Army G-8 in September 2005, and recently assumed duties as Acting Chief in November 2011. The Division mission is to synchronize munitions funding requirements for the Army's conventional ammunition programs. The Division manages resourcing for training ammunition, war and operations ammunition, and modernization efforts for the Government Owned Contractor Operated Ammunition Plants.
Mr. Ransom was commissioned a Second Lieutenant of Armor in 1978 and retired as a Lieutenant Colonel in 2002. During the 22 years on active duty, his assignments included: Force Development Officer, Objective Force Task Force; Executive Officer, Force Management Support Agency; Force Modernization Staff Officer, Army G-3; Executive Officer, Deputy Assistant Secretary for Research and Technology; Chief Staff Action Control Office, ASA(ALT); Department of the Army System Coordinator for the Heavy Tactical Wheeled Vehicles; Combat Developments Officer, U.S. Armor Center for the development of the Block II program for the Bradley Fighting Vehicle; Troop and Company Commander 1st Squadron, 11th Armored Cavalry Squadron; Platoon leader and Troop Executive Officer, 2nd Squadron, 9th Cavalry.

Mr. Ransom holds a baccalaureate degree from Old Dominion University and a Master of Science degree from Central Michigan University. He is a graduate of the Materiel Acquisition Management Course, Command and General Staff College, Program Management Course of the Defense Systems Management College, and the Advanced Civilian Leadership Course of the Army Management Staff College.

His awards include: the Legion of Merit; Meritorious Service Medal with Four Oak Leaf Clusters; Army Commendation Medal with Three Oak Leaf Cluusters; Army Achievement Medal with Three Oak Leaf Clusters; National Defense Service Medal; Armed forces Reserve Medal; Army Service Ribbon; Overseas Service Ribbon; Parachutist Badge; and Army Staff Identification Badge.

Mr. Ransom currently resides in Woodbridge, Virginia.

MR. BILL SANVILLE

Deputy Project Manager, Maneuver Ammunition Systems

Mr. Sanville was born in Lowell, MA, on June 4, 1960. A graduate of the University of Massachusetts-Lowell, with a B.S. degree in Engineering, he assumed his present assignment as Deputy Project Manager, Maneuver Ammunition Systems (MAS) in July 2004. Previously, as a special assignment, Mr. Sanville created the office and served as the first Product Director, Non Standard Ammunition, from April 2008 - September 2009, in direct support of Iraq and Afghanistan Security forces. From June 2002 - July 2004, he was the first Project Manager, Maneuver Ammunition Systems.

Mr. Sanville has held various positions within the Armaments and the Army Acquisition Corps community. At Watervliet Arsenal, NY, he was a quality and reliability engineer and test manager on the development, production, and fielding of the 120mm tank cannon for the M1A1 tank. After relocating to Picatinny Arsenal, he held various positions of increasing authority within the Fire Support Armaments Center, all associated with 105mm Artillery Systems and culminating as the Development Project Officer for 105mm Artillery Systems.

Mr. Sanville served as Chief, Systems Engineering and Integration Division, Office of the Project Manager, Crusader, where he also served as Crusader Program Technical Director. Mr. Sanville has served as the principal representative to NATO LG IV,

and Sub Panel II, Surface-to-Surface Artillery. He has also been the U.S. Head of Delegation for the five-nation Joint Ballistics Working Group. Prior to his present Maneuver Ammunition Systems leadership assignments, Mr. Sanville was the Associate Program Executive Officer, Ground Combat Systems and Director of Program Management within Ground Combat Systems.

Mr. Sanville completed the year-long, Quality and Reliability Engineering Intern Program at Red River Army Depot, Texarkana, TX. He has earned a Master's degree in the Management of Technology from the University of Pennsylvania Wharton School of Business and the Moore School of Engineering, where he was a Moore Fellow. In addition, he has completed numerous courses in Defense Acquisition Management and is a graduate of the Program Managers Course. He is a member of the Army Acquisition Corps and was a graduate of the United States Marine Corps Platoon Leaders Course.

Mr. Sanville's awards and decorations include the Meritorious Civilian Service Award, four Superior Civilian Service Awards, and the Commander's Award for Civilian Service. He has also received the David Packard Award for Excellence in Acquisition, the Secretary of Defense Office of Small and Disadvantaged Business Program Manager of the Year Award, a National Defense Industrial Association's (NDIA) Firepower Award for Management, the 2006 NDIA Moseley Award for serving with distinction in the munitions industry, the Honorable Order of St. Barbara, given by the United States Field Artillery Association, and the Order of St. Maurice, given by the National Infantry Association. Mr. Sanville was also the PEO AMMO Nominee for the Army Col/O-6 level Project Manager of the Year Award in 2003 and 2004.

MR. JAMES SHIELDS

Deputy Program Executive Officer Ammunition

Mr. James Shields became the Deputy Program Executive Officer Ammunition in November 2009. The PEO Ammunition mission is to execute life cycle management of munitions and serve as the Department of Defense Single Manager for Conventional Ammunition. With an FY10 operating budget of $3.9 billion, the PEO manages conventional ammunition for all our armed services and certain allied partners, and equips soldiers with mortar systems, countermine, and counter Improvised Explosive Device systems.

Previously, Mr. Shields has served as the Joint Program Manager (JPM) and Deputy JPM for the Joint Lightweight 155mm Howitzer (JLW155); Chief, Systems Engineering Division, Crusader self-propelled artillery system; Team Leader, Wide Area Mine (WAM); and Mechanical Systems Specialist, International Programs Office, Autonomous Precision Guided Munitions (APGM).

Mr. Shields graduated from Rutgers University with a Bachelor of Science degree in Mechanical Engineering and received a Master of Science degree in Mechanical Engineering from Stevens Institute of Technology. He is a graduate of the Program Management Course and the Executive Program Management Course of the Defense Systems Management College.

Mr. Shields is a member of the Army Acquisition Corps, the American Society of Mechanical Engineers, and the United States Army Field Artillery Association. His awards include: the Department of the Army's Decoration for Exceptional Civilian Service, Meritorious Civilian Service Medal and Superior Civilian Service Medal; the National Defense Industrial Association's Award for Outstanding Achievement in Production; and the Field Artillery Association's Ancient Order of Saint Barbara Medal.

SPEAKER BIOGRAPHIES — *Continued*

COL SCOTT TURNER, USA

Project Manager, Combat Ammunition Systems

Colonel Turner was born on March 5, 1964, in Gainesville, Florida. In 1986, he received his Regular Army commission as a Second Lieutenant in the Field Artillery, graduating with a Bachelor of Science degree in Biology from Florida Southern College in Lakeland, Florida. In 2009, Colonel Turner received a Master of Science degree in National Resource Strategy from the Industrial College of the Armed Forces at Fort Lesley J. McNair. Additionally, Colonel Turner is a graduate of the Field Artillery Officer Basic and Advanced Courses, the Defense Acquisition University's Program Manager's Course, Executive Program Manager's Course, and the Senior Acquisition Course.

Colonel Turner assumed charter as Project Manager, Combat Ammunition Systems-Indirect Fire (PM CAS-IF) on August 21, 2009. Prior to this, his most recent acquisition assignment was as Deputy Director, FCS Program Integration, Office of the Assistant Secretary of the Army for Acquisition, Logistics, and Technology from July 2007 to July 2008. From September 2004 to July 2007, he served as Product Manager, FBCB2-Blue Force Tracking. From January to August 2004, Colonel Turner served as a Department of the Army Systems Coordinator for FCS Unmanned and Complementary Systems. From September 2002 to January 2004, he served as Resource Integration Officer, Objective Force Task Force. From July 2000 to July 2002, he served as Assistant Project Manager, Crusader Systems Engineering & Integration. From July 1999 to July 2000, he served as Deputy Chief, TACOM Saudi Infantry Corps Modernization Office in Riyadh, Kingdom of Saudi Arabia. Colonel Turner's initial acquisition assignment was as Field Artillery Technology Manager at ARL from February 1997 to June 1998. Additionally, from April 1991 to December 1994, Colonel Turner served as 4th Division Artillery S3 Operations Duty Officer, Emergency Action Manager, Counter Fire Officer, and finally as Commander, A Battery, 26th Field Artillery (Target Acquisition). He also served as Special Weapons Field Storage Site Platoon Leader, COMSEC Custodian, and Emergency Action Manager, while assigned to the 36th USAFAD, Hemau, West Germany, from July 1987 to September 1990.

Colonel Turner is a graduate of the Combined Arms and Services Staff School and Command & General Staff College. Colonel Turner's awards include: the Meritorious Service Medal with Six Oak Leaf Clusters; Army Commendation Medal with Two Oak Leaf Clusters; Army Achievement Medal with Two Oak Leaf Clusters; National Defense Service Medal with One Oak Leaf Cluster; and the Overseas Service Ribbon (Two Tours). He is authorized to wear the Parachutist Badge and Army Staff Badge.

COL JEFFREY WILSON, USA

Project Director, Joint Services

Colonel Jeffrey K. Wilson is an Ordnance Officer and a member of the Army Acquisition Corps. COL Wilson was commissioned in 1982 as a Distinguished Military Graduate of the University of Wyoming's Army ROTC program. Over the past 27 years, he has served in a variety of logistics and acquisition positions, including Class IX Supply Platoon Leader for the 197th Infantry Brigade and Ammunition Supply Platoon Leader for the 608th Ordnance Company at Ft. Benning, GA; Commander of the 74th Ordnance Detachment (Explosive Ordnance Disposal (EOD)), Ft. Riley, KS; Ordnance Research and Development Officer for the Science and Technology Center — Europe in Frankfurt, Germany; Assistant Project Manager for Tank and Medium Caliber Ammunition at Picatinny Arsenal, NJ; Department of the Army Staff Coordinator for Tank Ammunition and Executive Officer for the Assistant Secretary of the Army for Acquisition, Logistics, and Technology, the Pentagon; Product Manager for the Excalibur Precision Guided, Extended Range 155mm Artillery Projectile, Picatinny Arsenal, NJ; and Director for Research, Development and Acquisition Management and Faculty Instructor at the U.S. Army War College, Carlisle, PA. COL Wilson's last position was at Fort Lee, VA, as the Project Manager for the Global Combat Support System – Army, a fully integrated information management system for tactical logistics and an ACAT ID Acquisition Program.

COL Wilson is currently the Project Director, Joint Services, PEO-Ammunition. His responsibilities include: modernization of

the organic ammunition industrial base; execution of Single Manager for Conventional Ammunition (SMCA) responsibilities, including critical supply chain management and procurement of Joint Service ammunition; Executive Committee Chair of the Joint Ordnance Commanders Group (JOCG); development of technology to solve ammunition production issues; ammunition logistics R&D; and the demilitarization of conventional ammunition for the Department of Defense. He manages an annual budget of approximately $250M.

COL Wilson received a Bachelor of Science in Electrical Engineering from the University of Wyoming in 1982, a Master of Science in Industrial Engineering from Virginia Tech in 1992, and a Master of Science in Strategic Studies from the U.S. Army War College in 2005. His military education includes the U.S. Army Command and General Staff College, the Advanced Program Management Course, and EOD School.

COL Wilson's awards and decorations include: the Legion of Merit; the Meritorious Service Medal with Seven Oak Leaf Clusters; the Army Commendation Medal; the Joint Service Achievement Medal; the Senior EOD Badge; and the Parachutist's badge.

MR. MICHAEL WILSON

President, General Dynamics-OTS; Vice President, General Dynamics

Michael S. Wilson is a Vice President of General Dynamics and President of its Ordnance and Tactical Systems business unit. General Dynamics has leading market positions in business aviation, information systems, shipbuilding and marine systems, and land and amphibious combat systems. The company is a leading supplier of sophisticated defense systems to the United States and its allies. It is headquartered in Falls Church, Virginia, employs approximately 92,000 people worldwide, and has four main business segments: Aerospace, Combat Systems, Advanced Information Systems, and Marine Systems. 2008 revenues were $29 billion.

Mr. Wilson joined Olin Corporation's Winchester Division in 1969 and was promoted to operational positions of increasing responsibility. In 1982, he was appointed Director, Business Planning and Information Systems, for the Winchester Division. In 1985, Mr. Wilson transferred to Olin's Ordnance Division as Director, Business Development and Planning. In 1988, he was promoted to Vice President, Programs. In this capacity, he directed all Ordnance Division programs, including 120mm tank ammunition, propellants, combustible products, medium-caliber, and howitzer ammunition. In 1990, Mr. Wilson was appointed Vice President, Marketing, where he directed all strategic planning, international programs, business development division, and marketing activities. In 1991, he was appointed Vice President, Tank Ammunition with responsibilities for all large-caliber business activities.

On January 1, 1997, when Olin Corporation spun off its Ordnance and Aerospace Divisions into Primex Technologies, Inc., Mr. Wilson was elected a company Vice President and President of the Ordnance and Tactical Systems Division. In January 1999, he was elected an Executive Vice President.

In January 2001, after the acquisition of Primex Technologies by General Dynamics, Mr. Wilson was appointed Sr. Vice President, General Dynamics Ordnance and Tactical Systems. In May 2001, he was appointed President, General Dynamics Ordnance and Tactical Systems, and in October, he was elected a company Vice President.

Mr. Wilson graduated from the University of Illinois at Champaign-Urbana, where he earned a B.S. in Industrial Engineering. He later completed graduate course work in Engineering Management, Economics, and Financial Analysis at Washington University and St. Louis University.

Mr. Wilson is an active member of the Association of the United States Army (AUSA), National Defense Industrial Association (NDIA), Navy League, and the Industrial Committee of Ammunition Producers.

Mr. Wilson's office is located at the General Dynamics Ordnance and Tactical Systems, headquartered in St. Petersburg, Florida.

SPEAKER BIOGRAPHIES — *Continued*

MR. MICHAEL YOH
President & CEO, Day & Zimmermann Munitions and Government

Mr. Yoh has held a number of increasingly responsible, technical and management positions throughout Day & Zimmermann since joining the company in 1985, including assignments in engineering, operations, production, business development, quality improvement, contract negotiation, and management.

Mr. Yoh serves in many capacities on outside boards. At Duke University, he is a member of the Pratt School of Engineering Board of Visitors. He is also a past President of the Duke University Engineering Alumni Council, past member of the Executive Committee of the Duke Annual Fund, and past member of the Duke Alumni Committee. Mr. Yoh is a member of the Board of the Boy Scouts of America's Sea Base High Adventure Camp and is a member of the Executive Board of the Boy Scouts of America's Cradle of Liberty Council. He is also a past member of the Board of Directors of the National Defense Industrial Association's (NDIA) Delaware Valley Chapter and past member of the (ICAP) Industrial Committee of Ammunition Producers.

Mr. Yoh holds a Bachelor of Science in Engineering from Duke University.

CONFERENCE SPONSORS

ATK is an aerospace, defense, and commercial products company with operations in 22 states, Puerto Rico, and internationally, with revenues of approximately $4.8 billion.

ATK has signature expertise in delivering timely, advanced, and affordable capabilities with reliable performance – in many cases economically upgrading current inventories with force multiplier effect.

ATK continues to expand its business as a leading provider of enhanced lethality and survivability solutions with core competencies in facility and supply chain management; small and medium-caliber ammunition design and manufacture; medium-caliber gun system design and manufacture; and precision weapons technology.

ATK is an industry leader in missile warning systems, advanced fuzing, lethality enhanced warheads, and tactical missile propulsion. The company also specializes in anti-radiation strike weapons and weaponized special mission aircraft conversion.

ATK is the world's top producer of solid rocket propulsion systems and a leading supplier of military and commercial composite aircraft structures. ATK's BLACKHAWK! and Eagle Industries brands of tactical equipment and accessories include tactical assault vests, load-bearing equipment, weapon transporting gear, holsters, personal gear carriers, and other high quality accessories.

Additional ATK news and information can be found at www.atk.com.

BAE Systems Ordnance Systems, Inc. has been the operating contractor for the Holston Army Ammunition Plant in Kingsport, Tennessee for the past 12 years.

BAE Systems Ordnance Systems, Inc. was also selected in May 2011, as the operating contractor for the Radford Army Ammunition Plant in Radford, Virginia.

The company has been recognized by the Army as a leader in partnering at government-owned, contractor-operated facilities and has been awarded for its commitment to munitions innovation and plant safety.

CONFERENCE SPONSORS — *Continued*

Chemring
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Chemring is a market leading manufacturing business supplying high technology electronics and energetic products, to over 80 countries around the world.

Chemring has a diverse portfolio of products that protect military people and platforms, providing insurance against a constantly changing threat. These range from a wide variety of products in the area of detection, munitions, pyrotechnics, and countermeasures.

Chemring Group is built on a hundred-year history of innovation and development and now employs over 4,500 people in the U.S., Europe, and Australia.

Chemring North America encompasses 13 sites in 7 strategic business units employing over 2,000 people. We provide solutions for highly demanding customer requirements in defense, security, and safety markets. For more information, visit: www.chemringnorthamerica.com or www.chemring.co.uk.

GENERAL DYNAMICS
Ordnance and Tactical Systems

General Dynamics Ordnance and Tactical Systems, a business unit of General Dynamics, is a world leader in the manufacture of large, medium, and small-caliber direct and indirect-fire munitions, mortar weapon systems and components, artillery projectiles, as well as hybrid, extruded and Ball Powder® propellants.

The company also manufactures precision metal components for missiles, rockets and bombs; provides explosive load, assembly, and pack services for a variety of munitions, tactical missile and rocket programs; and designs and produces shaped charge and penetrator warheads. More information about General Dynamics Ordnance and Tactical Systems is available online at www.gd-ots.com.

L3

Fuzing & Ordnance Systems

Cutting-edge technology is critical to success in every military, government, and commercial sector today. Keeping pace with the blinding speed of technology's advancement is a huge challenge, and L-3 Communications is uniquely equipped to help customers address it. L-3's diverse business mix also creates the strategic versatility to contribute to its success as a prime contractor or to compete as part of teams formed by other primes. In addition to market-leading, innovative offerings, L-3 has created strong, cohesive capabilities in highly relevant areas.

L-3 Fuzing & Ordnance Systems, a division of L-3 Precision Engagement Sector under L-3 Electronics Systems Group, is a key manufacturer and supplier of critical weapon components and technologies. These include electro-mechanical and electronic fuzing, Electronic Safe and Arm Devices (ESADs) and Electronic Safe and Arm Fuzes (ESAFs), Height of Burst Sensors, Flight Termination Systems, and Ignition Safety Devices. L-3 FOS' history evolved from precision watch-making, dating to the late 1800s, and mechanical fuze manufacture during WWII. The same precision and high reliability engineering is evident in our product portfolio, which spans Artillery, Mortars, Missiles, Bombs, and other advanced weapon applications, as well as our reputation as the leading fuzing manufacturer for the U.S. Government.

The Schuler Group

Full Capabilities for the Munitions Industry

Schuler is the global leader of innovative metal forming systems and technologies. Schuler Incorporated and Bliss Clearing Niagara Technical Services, both members of the Schuler Group, serve the munitions market in North America.

As the industrial base works to modernize manufacturing capabilities, our know-how and experience will bring value to help achieve these goals.

Schuler Incorporated's competencies for the defense and ammunition market include:

- High speed manufacturing systems for small caliber cases, bullets and projectiles including Schuler Legacy series of new munitions equipment
- Precision forging systems for medium and large-caliber cases and projectiles
- Tool technology for small, medium, and large-caliber applications
- Project Management
- Comprehensive facility press PM programs

With a collaborative approach, we look at your manufacturing systems and their overall inter-related processes to deliver turn-key solutions, with innovative new equipment and experienced engineering and specialists to provide modernization support.

Bliss Clearing Niagara (BCN) Technical Services competencies for the munitions market include:

- Technical service and support for repair and modernization of munitions equipment for any brand and specializing in experience with Bliss, Baird, and Waterbury Farrel
- OEM Drawings for the Bliss brand of ammunition equipment (and other brands)
- Fully refurbished case and bullet lines including ancillary equipment
- Tooling, training, and installation
- Parts, repair, and used equipment

Our reputation is growing – contact us to learn about a number of projects we've recently completed for the munitions industry. For more information, please visit www.schulerinc.com/munitions or wwwbcntechserv.com.

U.S. Munitions, LLC brings world-renown experience and expertise in facilities management and ammunition manufacturing to the U.S. military.

U.S. Munitions offers the combined, industry-leading capabilities of BAE Systems Ordnance Systems, Inc. and Winchester Defense, LLC.

U.S. Munitions brings a solid track record built on partnering with the Army at government-owned, contractor-operated facilities, and responding to the Army's ammunition needs with exceptional performance and accountability.

CONFERENCE SPONSORS — *Continued*

BLISS CLEARING NIAGARA

- MODERNIZATION SERVICES
- OEM DRAWINGS FOR BLISS BRAND (AND OTHERS)
- PARTS, REPAIR, USED EQUIPMENT

SCHULER

- PROJECT MANAGEMENT
- COMPREHENSIVE PRESS PM FOR FACILITIES
- NEW EQUIPMENT

Full Spectrum for Munitions Manufacturing

The Schuler Group supplies engineering, technical support and equipment for all caliber munitions manufacturing including forging, deep drawing, precision forming, cupping and bullet assembly.

Our team gives you a partner that provides access to world-class manufacturing systems and engineering expertise — plus specialized maintenance and modernization support.

bcntechserv.com schulerinc.com/munitions

FORMING THE FUTURE

Making a difference in the world

Day & Zimmermann is proud to manufacture the highest quality ammunition available today—a mission critical function we have supported for more than 70 years. With a diverse portfolio of production facilities and complementary capabilities that include Load/Assemble/Pack (LAP), storage and demilitarization, we get the job done safely and with integrity.

- Government Facilities Operation & Maintenance
- Conventional Munitions & Component Production
- Load/Assemble/Pack (LAP)
- Munitions Storage & Logistics
- Production Line Engineering
- Munitions Renovation & Demilitarization

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NOTES

PROCEEDINGS WILL BE AVAILABLE FOR DOWNLOAD WITHIN 2 WEEKS OF THE CONFERENCE AT:

www.dtic.mil/ndia/2012munitions/2012munitions.html